Government of
Saskatchewan

Interim Annual Report
2001

Saskatchewan Health
Vital Statistics

1942 Hamilton Street
Regina, Saskatchewan
S4P 3V7

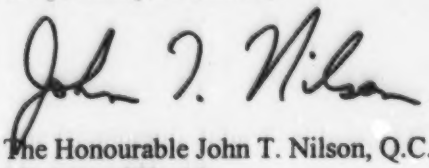
Letters of Transmittal

To the Honourable Dr. L.M. Haverstock
Lieutenant Governor of Saskatchewan

May It Please Your Honour:

We respectfully submit, for your consideration, the Interim Report on Saskatchewan Vital Statistics for the calendar year 2001.

Respectfully submitted,



The Honourable John T. Nilson, Q.C.
Minister of Health

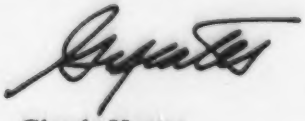
To the Honourable John T. Nilson, Q.C.
Minister of Health

Your Honour:

On behalf of department staff, I am pleased to present the Interim Report on Saskatchewan Vital Statistics for the calendar year 2001.

This interim report presents a concise record of those vital events that occurred in Saskatchewan during the calendar year 2001.

Respectfully submitted,



Glenda Yeates
Deputy Minister

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains postcensal estimates for 1987 to 1990, 1992 to 1995, 1997 to 2001 and final census figures for 1986, 1991, and 1996.
Live Births	Infants born alive, i.e., excluding stillbirths.
Stillbirths	Fetal deaths of 500 grams or more.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Divorces	: per 100,000 population
Natural Increase	: per 1,000 population

Causes of Death

All Causes	: per 100,000 population
Infant	: per 1,000 live births
Neonatal	: per 1,000 live births
Perinatal	: per 1,000 live births and stillbirths

Notes

1. Causes of death are classified according to the 10th (1994) Revision of the International Classification of Diseases, Injuries and Causes of Death, which was put into effect on January 1, 2000.

Introduction

The Vital Statistics Interim Report represents a concise record of those vital events, which occurred in Saskatchewan during the calendar year 2001. The Interim Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995.*

The Vital Statistics Interim Report 2001 records vital events by place of occurrence for 2001 (vital events which occurred in Saskatchewan in 2001). It includes for example, births to Saskatchewan residents who were in the province at the time of giving birth and residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments. The vital events recorded in this report for years previous to 2001 are by place of residence, unless otherwise indicated.

Table 1. Summary of Vital Statistics, Saskatchewan 1996 – 2001

Item	1996	1997	1998	1999*	2000*	2001*
Population	1,023	1,024	1,024	1,028	1,024	1,016
Live Births	13,300	12,860	12,710	12,481	12,040	12,220
Rate++	13.0	12.6	12.4	12.1	11.8	12.0
Deaths	8,765	8,637	8,838	8,947	8,898	8,745
Rate++	8.6	8.4	8.6	8.7	8.7	8.6
Natural Increase	4,535	4,223	3,872	3,534	3,142	3,475
Rate++	4.4	4.1	3.8	3.4	3.1	3.4
Infant Deaths	112	114	90	76	71	66
Rate**	8.4	8.9	7.1	6.1	5.9	5.4
Neonatal Deaths	76	77	83	66	58	63
Rate**	5.7	6.0	6.5	5.3	4.8	5.2
Perinatal Deaths@						
500 grams or more (20+ weeks Gestation)	119	127	121	115	104	128
Rate+++	8.9	9.8	9.5	9.2	8.6	10.4
500 grams or more (28+ weeks Gestation)	96	112	107	91	91	95
Rate+++	7.2	8.7	8.4	7.3	7.5	7.7
Stillbirths@						
500 grams or more (20+ weeks Gestation)	59	60	62	72	72	82
Rate**	4.5	4.7	4.9	5.8	6.0	6.7
500 grams or more (28+ weeks Gestation)	36	45	48	48	59	49
Rate**	2.7	3.5	3.8	3.8	4.9	4.0
Marriages	5,671	5,707	5,671	5,900	5,690	5,028
Rate++	5.5	5.6	5.5	5.7	5.6	4.9
Divorces and Annulments	2,211	2,195	2,223	2,230	2,222	1,976

* Preliminary figures only. Final figures not yet released by Statistics Canada.
** Rate per 1,000 live births
++ Rate per 1,000 population
+++ Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 1

A. Population

1. The Historical Trend

The estimated population of 1,015,783 for 2001 is a slight decrease of 0.77 per cent over the 2000 estimated population of 1,023,636.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1931	922
1941	896
1951	832
1961	925
1971	926
1981	968
1991	991
2001	1,016*

* Statistics Canada Postcensal Estimate.
All other figures are final census.

2. The Percentage Distribution of the Total Population

During the past 30 years, the proportion of older people (65 years of age and over) has been increasing in Canada as a whole and in Saskatchewan. In Saskatchewan, however, the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.6 percent and 12.6 percent respectively).

Table 3. Distribution of Total Population, Saskatchewan, 2001 (000's)

	Canada		Saskatchewan	
Age Group	Number	Percent	Number	Percent
Total	31,082.0	100.0	1,016.0	100.0
0-19	7,927.0	25.5	294.0	29.0
20-44	11,823.0	38.0	356.0	35.0
45-64	7,413.0	23.9	218.0	21.4
65+	3,918.0	12.6	148.0	14.6

Table 4. Percentage Distribution by Sex, Saskatchewan, or Selected Years

Year	Male	Female	Males per 100 Females
1921	54.6	45.4	120
1931	54.2	45.8	119
1941	53.3	46.7	114
1951	52.2	47.8	109
1961	51.8	48.2	108
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	99
2001	49.6	50.4	98

B. Births

1. Live Births

During the year 2001 a total of 12,220 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 12,220 live births represents a birth rate of 12.0 live births per 1,000 population, which is slightly higher than last year's birth rate.

The 1998 birth rates for Saskatchewan, for Canada, and for the Provinces are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population, Canada and Provinces, 1998

Province	Rate
Canada	11.3
Newfoundland	9.2
Prince Edward Island	11.0
Nova Scotia	10.3
New Brunswick	10.5
Quebec	10.4
Ontario	11.6
Manitoba	12.7
Saskatchewan	12.5
Alberta	13.0
British Columbia	10.8
Yukon	12.6
Northwest Territories	16.6
Nunavut	25.2

2. Stillbirths

During the year 2001 a total of 82 stillbirths occurred in the province. The definition of occurrence is given in the introduction. The 82 stillbirths occurred after 20 or more weeks gestation; 49 of the stillbirths occurred after 28 or more weeks gestation. These two totals represent rates of 6.7 and 4.0 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2001 a total of 8,745 deaths occurred within the province of Saskatchewan. This represents a crude death rate of 8.6 deaths per 1,000 population, which is slightly lower than the crude death rate experienced in 2000.

The 1998 crude death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population, Canada and Provinces, 1998

Province	Rate
Canada	7.2
Newfoundland	7.8
Prince Edward Island	8.8
Nova Scotia	8.6
New Brunswick	8.4
Quebec	7.4
Ontario	7.0
Manitoba	8.6
Saskatchewan	8.7
Alberta	5.8
British Columbia	7.0
Yukon	4.3
Northwest Territories	3.6
Nunavut	5.4

Table 7. Age Specific Death Rates per 1,000 Population, Saskatchewan, 1986 – 2001

	All	Age Group					
Year	Ages	Under 5	5-14	15-24	25-44	45-64	65+
1986	8.0	2.3	0.3	1.2	1.2	7.2	46.5
1987	7.7	2.2	0.4	1.1	1.1	6.6	44.8
1988	8.0	2.1	0.3	1.0	1.3	6.7	46.3
1989	7.9	2.0	0.2	0.8	1.2	6.2	45.4
1990	8.0	2.0	0.2	0.9	1.1	6.3	46.0
1991	8.1	1.8	0.2	1.0	1.2	6.0	45.9
1992	7.8	1.7	0.2	0.9	1.1	5.5	44.0
1993	8.1	1.9	0.2	0.9	1.1	5.8	44.8
1994	8.2	2.0	0.3	0.8	1.1	5.9	44.9
1995	8.4	2.2	0.3	0.8	1.2	5.8	45.5
1996	8.6	1.9	0.2	0.7	1.2	5.5	47.4
1997	8.4	2.0	0.3	0.7	1.2	5.3	46.9
1998*	8.6	1.6	0.1	0.8	1.0	5.2	48.4
1999*	8.7	1.5	0.2	0.6	1.1	5.2	49.2
2000*	8.7	1.5	0.2	0.8	1.2	4.9	49.0
2001*	8.6	1.3	0.1	0.7	1.1	4.9	48.4

* Preliminary Figures

Table 8. Number of Deaths Occurring in Saskatchewan in 2001

	Deaths	Percent	Rate*
All Causes of Death	8745	100.0	860.9
1 Salmonella infections	0	0.0	0.0
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	2	0.0	0.2
4 Respiratory tuberculosis	3	0.0	0.3
5 Other tuberculosis	1	0.0	0.1
6 Whooping cough	0	0.0	0.0
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	1	0.0	0.1
9 Septicemia	65	0.7	6.4
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	0	0.0	0.0
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	0	0.0	0.0
14 Viral hepatitis	4	0.0	0.4
15 Human immunodeficiency virus (HIV) disease	3	0.0	0.3
16 Malaria	0	0.0	0.0
17 Other and unspecified infectious and parasitic diseases and their sequelae	15	0.2	1.5
18 Malignant neoplasms of lip, oral cavity and pharynx	32	0.4	3.2
19 Malignant neoplasm of esophagus	46	0.5	4.5
20 Malignant neoplasm of stomach	71	0.8	7.0
21 Malignant neoplasms of colon, rectum and anus	229	2.6	22.5
22 Malignant neoplasms of liver and intrahepatic bile ducts	45	0.5	4.4
23 Malignant neoplasm of pancreas	97	1.1	9.5
24 Malignant neoplasm of larynx	13	0.1	1.3
25 Malignant neoplasms of trachea, bronchus and lung	524	6.0	51.6
26 Malignant melanoma of skin	25	0.3	2.5
27 Malignant neoplasm of breast	161	1.8	15.8
28 Malignant neoplasm of cervix uteri	16	0.2	1.6
29 Malignant neoplasms of corpus uteri and uterus, part unspecified	9	0.1	0.9
30 Malignant neoplasm of ovary	52	0.6	5.1
31 Malignant neoplasm of prostate	220	2.5	21.7
32 Malignant neoplasms of kidney and renal pelvis	45	0.5	4.4
33 Malignant neoplasm of bladder	49	0.6	4.8
34 Malignant neoplasms of meninges, brain and other parts of central nervous system	46	0.5	4.5
35 Hodgkin's disease	11	0.1	1.1
36 Non-Hodgkin's lymphoma	86	1.0	8.5
37 Leukemia	84	1.0	8.3
38 Multiple myeloma and immunoproliferative neoplasms	37	0.4	3.6

	Deaths	Percent	Rate*
39 Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	2	0.0	0.2
40 All other and unspecified malignant neoplasms	339	3.9	33.4
41 In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	55	0.6	5.4
42 Anemias	23	0.3	2.3
43 Diabetes mellitus	290	3.3	28.5
44 Malnutrition	6	0.1	0.6
45 Other nutritional deficiencies	3	0.0	0.3
46 Meningitis	4	0.0	0.4
47 Parkinson's disease	59	0.7	5.8
48 Alzheimer's disease	243	2.8	23.9
49 Acute rheumatic fever and chronic rheumatic heart diseases	20	0.2	2.0
50 Hypertensive heart disease	34	0.4	3.3
51 Hypertensive heart and renal disease	7	0.1	0.7
52 Acute myocardial infarction	686	7.8	67.5
53 Other acute ischemic heart diseases	15	0.2	1.5
54 Atherosclerotic cardiovascular disease, so described	104	1.2	10.2
55 All other forms of chronic ischemic heart disease	790	9.0	77.8
56 Acute and subacute endocarditis	3	0.0	0.3
57 Diseases of pericardium and acute myocarditis	5	0.1	0.5
58 Heart failure	350	4.0	34.5
59 All other forms of heart disease	270	3.1	26.6
60 Essential (primary) hypertension and hypertensive renal disease	53	0.6	5.2
61 Cerebrovascular diseases	679	7.8	66.8
62 Atherosclerosis	67	0.8	6.6
63 Aortic aneurysm and dissection	70	0.8	6.9
64 Other diseases of arteries, arterioles and capillaries	39	0.4	3.8
65 Other disorders of circulatory system	15	0.2	1.5
66 Influenza	14	0.2	1.4
67 Pneumonia	180	2.1	17.7
68 Acute bronchitis and bronchiolitis	1	0.0	0.1
69 Unspecified acute lower respiratory infection	2	0.0	0.2
70 Bronchitis, chronic and unspecified	10	0.1	1.0
71 Emphysema	39	0.4	3.8
72 Asthma	0	0.0	0.0
73 Other chronic lower respiratory diseases	362	4.1	35.6
74 Pneumoconioses and chemical effects	1	0.0	0.1
75 Pneumonitis due to solids and liquids	26	0.3	2.6
76 Other diseases of respiratory system	110	1.3	10.8
77 Peptic ulcer	20	0.2	2.0
78 Diseases of appendix	2	0.0	0.2
79 Hernia	6	0.1	0.6

	Deaths	Percent	Rate*
80 Alcoholic liver disease	44	0.5	4.3
81 Other chronic liver disease and cirrhosis	34	0.4	3.3
82 Cholelithiasis and other disorders of gallbladder	10	0.1	1.0
83 Acute and rapidly progressive nephritic and nephrotic syndrome	0	0.0	0.0
84 Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	2	0.0	0.2
85 Renal failure	147	1.7	14.5
86 Other disorders of kidney	0	0.0	0.0
87 Infections of kidney	3	0.0	0.3
88 Hyperplasia of prostate	2	0.0	0.2
89 Inflammatory diseases of female pelvic organs	0	0.0	0.0
90 Pregnancy with abortive outcome	0	0.0	0.0
91 Other complications of pregnancy, childbirth and the puerperium	1	0.0	0.1
92 Certain conditions originating in the perinatal period	28	0.3	2.8
93 Congenital malformations, deformations and chromosomal abnormalities	41	0.5	4.0
94 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	111	1.3	10.9
95 All other diseases (Residual)	775	8.9	76.3
96 Motor vehicle accidents	155	1.8	15.3
97 Other land transport accidents	7	0.1	0.7
98 Water, air and space, and other and unspecified transport accidents	4	0.0	0.4
99 Falls	68	0.8	6.7
100 Accidental discharge of firearms	0	0.0	0.0
101 Accidental drowning and submersion	14	0.2	1.4
102 Accidental exposure to smoke, fire and flames	10	0.1	1.0
103 Accidental poisoning and exposure to noxious substances	25	0.3	2.5
104 Other and unspecified nontransport accidents and their sequelae	120	1.4	11.8
105 Intentional self-harm (suicide) by discharge of firearms	29	0.3	2.9
106 Intentional self-harm (suicide) by other and unspecified means and their sequelae	74	0.8	7.3
107 Assault (homicide) by discharge of firearms	2	0.0	0.2
108 Assault (homicide) by other and unspecified means and their sequelae	24	0.3	2.4
109 Legal intervention	1	0.0	0.1
110 Discharge of firearms, undetermined intent	2	0.0	0.2
111 Other and unspecified events of undetermined intent and their sequelae	11	0.1	1.1
112 Operations of war and their sequelae	0	0.0	0.0
113 Complications of medical and surgical care	5	0.1	0.5

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2001 a total of 403 deaths due to accidents occurred in the province of Saskatchewan. This represents a rate of 39.7 deaths by accidents per 100,000 population in 2001 as compared to a rate of 43.4 deaths by accident per 100,000 population in 2000.

The number of suicides, which occurred in Saskatchewan during 2001, was 103, a rate of 10.1 suicides per 100,000 population, which is slightly lower than the number that occurred in 2000.

There were 25 homicides in Saskatchewan in 2001, a slight increase from the 2000 number of 20 homicides.

D. Natural Increase in Population

In 2001 the natural increase was 3,475 and the estimated actual increase was –7,853 giving rates per 1,000 population of 3.4 and –7.7 respectively.

Table 9. Natural Increase and Actual Increase, Saskatchewan, 1998 – 2001*

				Natural Increase		Est. Actual Increase	
Year	Population	Live Births	Deaths	Number	Rate per 1,000 Pop.	Number	Rate per 1,000 Pop.
1988	1,011,200	16,763	8,100	8,663	8.6	-2,800	-2.8
1989	1,007,000	16,572	7,861	8,711	8.7	-4,200	-4.2
1990	1,000,300	16,090	8,044	8,046	8.0	-6,700	-6.7
1991	997,000	15,304	8,098	7,206	7.2	-3,300	-3.3
1992	993,700	15,004	7,793	7,211	7.3	-3,300	-3.3
1993	1,003,100	14,269	8,164	6,105	6.1	9,400	9.4
1994	1,016,200	14,038	8,308	5,730	5.6	13,100	12.9
1995	1,016,162	13,515	8,475	5,040	5.0	-38	-0.04
1996	1,022,537	12,974	7,713	5,261	5.1	6,375	6.2
1997	1,023,500	12,860	8,637	4,223	4.1	963	0.9
1998	1,024,387	12,777	8,838	3,939	3.8	887	0.9
1999*	1,027,780	12,481	8,947	3,534	3.4	3,393	3.3
2000*	1,023,636	12,040	8,898	3,142	3.1	-4,144	-4.0
2001*	1,015,783	12,220	8,745	3,475	3.4	-7,853	-7.7

* See footnotes in Table 1.

E. Marriages

During the year 2001 a total of 5,028 marriages occurred in Saskatchewan. This total represents a rate of 4.9 marriages per 1,000 population. Marriage rates for Canada, the Provinces, and Saskatchewan for 1998 are given below for comparison.

Table 10. Marriages Rate per 1,000 Population, Canada and the Provinces, 1998

Province	Rate
Canada	5.1
Newfoundland	5.8
Prince Edward Island	6.4
Nova Scotia	5.5
New Brunswick	5.4
Quebec	3.1
Ontario	5.7
Manitoba	5.7
Saskatchewan	5.6
Alberta	6.1
British Columbia	5.4
Yukon	5.3
Northwest Territories	3.3
Nunavut	3.0

F. Divorces

In 2001 a total of 1,976 divorces and annulments were registered under *The Vital Statistics Act, 1995* in Saskatchewan at the time of publication. This does not represent the total number of divorce petitions filed in 2001 since some petitions are not yet finalized.

G. Life Expectancy

A life expectancy table is, in effect, the history of mortality of 100,000 male babies and of 100,000 female babies born at the same time. Life expectancy figures provide a graphic picture of the extent to which the saving of lives has gradually prolonged the average expectation of life and are a fairly good reflection of the general health and survival conditions at the time of their compilation.

According to the Saskatchewan life table compiled on the basis of the 1996 census, the life expectancy at birth reached an all time peak for females, 81.30 years, and for males, 75.40 years. The gain in life expectancy is greater in females.

Table 11. Life Expectancy, Saskatchewan, 1941, 1961, 1981, 1996

	Life Expectancy				Gain or Loss In Life Expectancy		
	1941	1961	1981	1996	1961 over 1941	1981 over 1961	1996 over 1981
			Males				
At Birth	65.43	70.27	72.43	75.40	4.84	2.16	2.97
20	51.28	53.49	54.35	56.60	2.21	0.86	2.25
40	33.32	34.99	35.92	37.90	1.67	0.93	1.98
60	16.82	18.10	19.09	20.40	1.28	0.99	1.31
80	5.76	6.31	7.16	7.60	0.55	0.85	0.44
			Females				
At Birth	68.19	75.93	79.61	81.30	7.74	3.68	1.69
20	53.08	58.35	60.85	62.40	5.27	2.50	1.55
40	34.96	39.09	41.64	43.00	4.13	2.55	1.36
60	18.26	21.09	23.65	24.80	2.83	2.56	1.15
80	6.38	7.29	8.94	9.90	0.91	1.65	0.96

Note: Source of figures for 1941: Life Tables for Canada and Regions, 1941 and 1931, D.B.S. Ottawa 1947. These figures have been calculated for the prairie provinces. The figures for 1961 were calculated for Saskatchewan by the Department of Health. The figures for 1981 and 1991 were taken from the Statistics Canada publication, Life Tables, Canada and Provinces, 1980-1982 and 1995-1997.

H. Adoptions

There were 189 adoptions registered in Saskatchewan during 2001, compared to 226 adoptions in 2000. The total of 189 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan as well as adoptions in Saskatchewan of persons born elsewhere.

I. Legal Changes of Name

During 2001 a total of 755 legal changes of name were registered in Saskatchewan. This represents a very slight increase in the number of changes of name registered in 2000. The total of 755 does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.